

Recent IBM patents

The following patents were recently issued by the countries in which the inventions were made. For U.S. patents, titles and names supplied to us by the U.S. Patent Office are reproduced exactly as they appear on the original published patent.

United States

5,432,910	K. J. Barker, G. M. Calhoun, J. Calvignac, R. Castel, J. C. Dispensa, Y. Huchet, E. S. Suffern, and R. Ulivastro	Coupling Apparatus and Method for Increasing the Connection Capability of a Communication System
5,432,916	G. Hahn, K. Muenzner, F. J. Pita, H. Ulland, J. C. Diepenbrock, P. Oman, and R. Kelley	Precharge for Non-Disruptive Bus Live Insertion
5,432,917	S. N. Parikh	Tabulation of Multi-Bit Vector History
5,432,922	C. A. Polyzois, D. M. Dias, and A. K. Bhide	Digital Storage System and Method Having Alternating Deferred Updating of Mirrored Storage Disks
5,432,926	A. P. Citron and J. P. Gray	Method and Apparatus for Improving Database Reliability and Response Time in a Distributed Transaction Processing System
5,432,929	D. R. Escola, S. D. Gerdt, B. N. Harding, P. W. Hunter, and L. R. Shipman, Jr.	Storage Subsystem Having a Modifiable Key-Lock
5,432,932	J. N. Chen, N. Christiansen, J. C. Ross, and A. T. Rowan	System and Method for Dynamically Controlling Remote Processes from a Performance Monitor
5,432,939	J. W. Blackledge, Jr., R. A. Dayan, D. L. Moeller, P. E. Newman, and K. J. P. Zubay	Trusted Personal Computer System with Management Control Over Initial Program Loading
5,432,946	D. J. Allard and P. Chandra	LAN Server Personal Computer with Unattended Activation Capability
5,432,998	R. T. Galasco and J. A. Molla	Method of Solder Bonding Processor Package
5,433,258	M. S. Barnes, D. K. Coultas, J. C. Forster, J. H. Keller, and J. A. O'Neill	Gettering of Particles During Plasma Processing
5,433,631	B. S. Beaman, F. E. Doany, T. J. Dudek, A. P. Lanzetta, D.-Y. Shih, W. J. Tkazyik, and G. F. Walker	Flex Circuit Card Elastomeric Cable Connector Assembly
5,433,651	N. E. Lustig, K. L. Saenger, and H.-M. Tong	<i>In-Situ</i> Endpoint Detection and Process Monitoring Method and Apparatus for Chemical-Mechanical Polishing
5,433,812	J. J. Cuomo, C. R. Guarnieri, and J. A. Hopwood	Apparatus for Enhanced Inductive Coupling to Plasmas with Reduced Sputter Contamination
5,433,821	T. L. Miller, R. C. Taylor, and M. R. Gaige	Direct Patternization Device and Method
5,434,109	S. F. Geissler, J. W. Korejwa, J. B. Lasky, and P.-H. Pan	Oxidation of Silicon Nitride in Semiconductor Devices
5,434,400	H. Scherzer	Method and Apparatus for Decoding F2F Signals Read from a Magnetic Data Carrier
5,434,424	W. Stickel and R. A. Kendall	Spinning Reticle Scanning Projection Lithography Exposure System and Method

5,434,451	H. M. Dalal, K. J. Hutchings, and H. S. Rathore	Tungsten Liner Process for Simultaneous Formation of Integral Contact Studs and Interconnect Lines
5,434,504	R. L. Hollis, J. Ish-Shalom, and E. J. Yarmchuk	Position Sensors for Linear Motors Including Plural Symmetrical Fluxes Generated by a Planar Drive Coil and Received By Planar Sense Coils Being Colinear Along an Axis of Motion
5,434,519	T. D. Trinh, S. Dutta, S. E. Schuster, T. A. Cao, and T. Q. Nguyen	Self-Resetting CMOS Off-Chip Driver
5,434,524	R. R. Shaw and D. T. Shen	Method of Clocking Integrated Circuit Chips
5,434,590	J. M. Dinwiddie, Jr., B. J. Freeman, G. A. Suarez, and B. J. Wilkie	Multimedia System
5,434,592	J. M. Dinwiddie, Jr., B. J. Freeman, T. J. Micallef, G. A. Suarez, and B. J. Wilkie	Multimedia Expansion Unit
5,434,688	Y. Saitoh and M. Teruya	Light Scattering Liquid Crystal Cell Having Black Patterns and Opaque Mask Formed on Opposite Substrates
5,434,752	J. D. Huth, R. F. Pan, F. J. Pita, B. P. Reier, and V. E. Valle	System and Method for Regulating Staggered Connection Insertion Timing
5,434,848	P. F. Chimento, Jr., V. G. Kulkarni, and L. Gun	Traffic Management in Packet Communications Networks
5,434,868	F. J. Aichelmann, Jr. and C. A. Branson	Fault Tolerant Memory
5,434,910	W. J. Johnson, M. D. Smith, and M. L. Williams	Method and System for Providing Multimedia Substitution in Messaging Systems
5,434,957	C. H. L. Moller	Method and Apparatus for Generating a Color Palette
5,434,967	D. C. Tannenbaum, A. D. Bowen, R. S. Horton, L. D. Richardson, and P. M. Schanely	Decision Variable Hardware Logic and Processing Methods for Graphics Display System
5,434,974	L. K. Loucks and A. A. Shaheen-Gouda	Name Resolution for a Multisystem Network
5,434,978	M. J. Dockter, J. F. Farber, J. C. Kleewein, K. D. Seppi, and D. W. Tolleson	Communications Interface Employing Unique Tags Which Enable a Destination to Decode a Received Message Structure
5,434,980	D. F. Casper, J. R. Flanagan, G. H. Miracle, R. A. Neuner, and P. L. Potvin	Apparatus for Communication Between a Device Control Unit Having a Parallel Bus and a Serial Channel Having a Serial Link
5,434,985	P. G. Emma, J. W. Knight, J. H. Pomerene, and T. R. Puzak	Simultaneous Prediction of Multiple Branches for Superscalar Processing
5,434,992	R. L. Mattson	Method and Means for Dynamically Partitioning Cache into a Global and Data Type Subcache Hierarchy from a Real Time Reference Trace
5,434,994	A. A. Shaheen and K. K. Yellepeddy	System and Method for Maintaining Replicated Data Coherency in a Data Processing System
5,435,004	J. O. Cox and J. M. Mott	Computerized System and Method for Data Backup
5,435,053	M. T. Krounbi and J. H. Lee	Simplified Method of Making Merged MR Head
5,435,057	P. S. Bindra, R. D. Havens, V. R. Markovich, and J. A. Molla	Interconnection Method and Structure for Organic Circuit Boards
5,435,480	P. J. Hart, K. V. Desai, E. Vytalil, and A. K. Trivedi	Method for Filling Plated Through Holes
5,435,724	B. D. Goodman, J. J. Wynne, H. W. Kaufman, and J. M. Jacobs	Dental Procedures and Apparatus Using Ultraviolet Radiation
5,435,732	C. G. Angulas, P. T. Flynn, J. Funari, T. E. Kindl, and R. L. Orr	Flexible Circuit Member
5,435,885	J. D. Jones, R. H. Katyl, T. L. Miller, and O. A. Moreno	Apparatus and Method for Fluid Processing of Electronic Packaging with Flow Pattern Change
5,436,047	J. K. Howard, H.-C. W. Huang, C. Hwang, and A. W. Wu	Thin Film Magnetic Recording Disk Comprising a Metallic Disk Blank, a Substantially Non-Magnetic Ni-Cr-O Film Having a Textured Surface and a Magnetic Film
5,436,412	U. M. U. Ahmad, A. H. Kumar, E. D. Perfecto, C. Prasad, S. Purushothaman, and S. K. Ray	Interconnect Structure Having Improved Metallization
5,436,545	A. A. Bahr and T. R. Larson	System for Accurately Measuring Current in PWM Amplifier Driven Loads
5,436,616	S. Futatsugi, Y. Shimo, and M. Uemura	Computer Screen Cursor Pointing Device with Cleaning Alarm
5,436,747	H. Suzuki	Reduced Flicker Liquid Crystal Display
5,436,773	W. M. Hanson	Enhanced Linearity Range for Magneto Resistive Transducer Servo by Changing the Direction of the Bias Current
5,436,778	T. Lin, J. K. Howard, C. Hwang, D. Mauri, and N. Staud	Magnetoresistive Sensor Having Antiferromagnetic Exchange Bias
5,436,849	A. D. Drumm	Incremental Logic Synthesis System for Efficient Revision of Logic Circuit Designs
5,436,892	K. Tago, Y. Negishi, and M. Hoshiba	Apparatus and Method for Packet Communications

5,436,898	R. A. Bowen, J. Hauris, and D. M. Kalajainen	Multi-Media Network Bus
5,436,914	K. E. Augustine, C.-W. Chao, A. A. Daniel, J. L. Frantz, D. N. Jacobson, K. E. Karlsson, K. D. Lee, D. E. Levenson, R. E. Moore, and M. Willett	Control of Non-Resetable Counters by Multiple Processes
5,436,963	G. P. Fitzpatrick, W. J. Johnson, and M. L. Williams	Telephone Answering Method and Apparatus
5,437,005	R. J. Torres	Graphical Method of Processing Multiple Data Blocks
5,437,014	L. J. H. Busboom, S. T. Eagen, H. G. Kiel, R. F. Romon, and J. J. Van Heuklon	System for Supporting Mouse Button Events of Dependent Workstation Terminals Connected to Main Processor Executing Multiple Application Programs
5,437,017	C. R. Moore and J. S. Muhich	Method and System for Maintaining Translation Lookaside Buffer Coherency in a Multiprocessor Data Processing System
5,437,022	B. C. Beardsley, S. K. Candelaria, B. S. Powers, and M. A. Reid	Storage Controller Having Additional Cache Memory and a Means for Recovering from Failure and Reconfiguring a Control Unit Thereof in Response Thereto
5,437,025	R. C. Bale, W. I. Rich, and F. W. Shackelford	System and Method for Run Time Configuration of Objects in an Object Oriented Computing Environment
5,437,026	S. D. Borman and A. J. Tyrrell	Removing Uncommitted Changes Made to Stored Data by a Database Management System
5,437,032	J. L. Wolf, P. S. Yu, and J. J. E. Turek	Task Scheduler for a Multiprocessor System
5,437,038	A. M. Silberbauer and S. J. Tabari	System and Method of Encoding Units of Data Including Entity/Relationship Data, Function Calls, and File Data Using a Common Data Format (CDF) According to Formal CDF Grammar Rules
5,437,328	R. E. Simons	Multi-Stage Heat Sink
5,438,226	D. A. Kuchta	Apparatus for Redundant Cooling of Electronic Devices
5,438,272	J. A. Craig and K.-C. Woo	Voltage-Stressing and Testing of Networks Using Moving Probes
5,438,275	F. Fado, T.-L. Wong, G. F. Verrier, R. L. Donaldson, and P. D. Kowalewski	Digitizing Stylus Having Capacitive Pressure and Contact Sensing Capabilities
5,438,341	M. Kobayashi, R. Kataoka, and M. Naitoh	Monitor Interface Architecture for Black Level Transfer
5,438,342	H. Yamaguchi	Liquid Crystal Display Apparatus and Method and Apparatus for Driving Same
5,438,460	J. D. Coker and R. L. Galbraith	Asynchronous Gain Adjustment for PRML Disk Drive Systems
5,438,467	L. K. Dorius, J. M. Harker, and L. W. Samuelson	Negative Pressure Air Bearing Design
5,438,559	J. S. Best and S. R. Hetzler	Method for Locating Physical Sectors in a Fixed Block Architecture Embedded Servo Disk File #14
5,438,658	G. P. Fitzpatrick, W. J. Johnson, and M. L. Williams	Method and System for Time Critical Response Management in a Data Processing System
5,438,660	R. E. Lee and R. J. Torres	Method and Apparatus for Inputting Electronic Mail
5,438,747	M. T. Krounbi, J.-S. J. Lo, C. H. Tsang, and R. M. Valletta	Method of Making a Thin Film Merged MR Head with Aligned Pole Tips
5,439,636	R. J. Bezama, J. A. Casey, M. E. Ecker, S. Farooq, I. S. Frantz, K. G. Frase, D. H. Gabriels, L. W. Herron, J. U. Knickerbocker, S. H. Knickerbocker, G. Natarajan, J. Thomson, Y.-M. Ting, S. L. Tracy, R. M. Troncillito, V. M. Sura, D. R. Wall, and G. V. Yen	Large Ceramic Articles and Method of Manufacturing
5,439,766	R. A. Day, D. H. Glatzel, J. R. Mertz, J. L. Roth, D. J. Russell, and L. L. Simpson	Composition for Photo Imaging
5,439,779	R. A. Day, D. H. Glatzel, D. J. Russell, J. D. Gelorme, and J. R. Mertz	Aqueous Soldermask
5,439,876	V. Graf and C. A. Mueller	Method of Making Artificial Layered High T_c Superconductors
5,440,233	R. T. Hodgson, P. M. Marcus, and V. L. Moruzzi	Atomic Layered Materials and Temperature Control for Giant Magnetoresistive Sensor
5,440,258	D. E. Galbi, R. J. Houghton, M. Killian, and A. B. Wilson	Off-Chip Driver with Voltage Regulated Pre-drive
5,440,277	J. F. Ewen and M. Soyuer	VCO Bias Circuit with Low Supply and Temperature Sensitivity
5,440,474	S. R. Hetzler	Magnetic Recording Disk with Equally-Spaced Servo Sectors Extending Across Multiple Data Bands
5,440,507	M. J. Brady, B. E. Braren, R. J. Gambino, A. Grill, and V. V. Patel	Diamond-Like Carbon Write-Read Optical Storage Memory

5,440,633	K. E. Augustine, J. E. Neeley, Sr., and N. C. Strole	Communication Network Access Method and System
5,440,663	G. Moese, K. Mohr, and U. Bandara	Computer System for Speech Recognition
5,440,678	I. Eisen, F. Fandrick, S. W. Murphrey, and S. N. Parikh	Method of and Apparatus for Creating a Multi-Media Footnote
5,440,681	M. Kudo	Method and Apparatus for Display and Interactive Modification of the Tasks in a Production Plan
5,440,686	K. G. Dahman, K. F. Day III, A. M. Diaz, and D. A. Ford	Selecting a Data Unit Candidate to Be Demoted to a Backing Store from a Front Store Based Upon Thresholds Individual to Each of the Data Candidates
5,440,687	R. G. Coleman, D. M. Advani, O. K. Monroe, R. M. Straub, M. H. Gleason, and Y.-P. Huang	Communication Protocol for Handling Arbitrarily Varying Data Strides in a Distributed Processing Environment
5,440,689	J. J. Reilly and S. T. Ventrone	Interprocessor Communication System for Direct Processor to Processor Communication Between Internal General Purpose Registers Transparent to the Execution of Processors Thereof
5,440,693	A. F. Arnold, A. R. Wheeler, and J. Tai	Personal Computer with Drive Identification
5,440,697	M. A. Boegel, D. O. Bolstad, S. A. Knight, H. G. Keil, R. R. Nelson, and P. A. Wright	Method and Apparatus for Simulating I/O Devices
5,440,703	D. S. Ray and A. K. Spencer	System and Method for Saving State Information in a Multi-Execution Unit Processor When Interruptable Instructions Are Identified
5,440,723	W. C. Arnold, D. M. Chess, J. O. Kephart, and S. R. White	Automatic Immune System for Computers and Computer Networks
5,440,727	A. K. Bhide, G. P. Copeland, A. Goyal, H.-I. Hsiao, A. D. Jhingran, and C. Mohan	Asynchronous Replica Management in Shared Nothing Architectures
5,440,734	B. A. Wagar	System for MSD Radix Sort Bin Storage Management
5,440,735	R. D. Goldring	Simplified Relational Data Base Snapshot Copying
5,441,690	J. Ayala-Esquilain, B. S. Beaman, R. A. Haring, J. L. Hedrick, D.-Y. Shih, and G. F. Walker	Process of Making Pinless Connector
5,441,797	D. P. Hogan, H. G. Linde, and R. A. Warren	Antireflective Polyimide Dielectric for Photolithography
5,441,836	J. G. Balz, J. R. Lankard, Sr., and M. J. LaPlante	Laser Ablation Mask Repair Method
5,442,144	W. T. Chen, T. P. Gall, J. R. Wilcox, and T. Y. Wu	Multilayered Circuit Board
5,442,172	W.-W. Chiang and C.-K. Lee	Wavefront Reconstruction Optics for Use in a Disk Drive Position Measurement System
5,442,239	G. DiGiacomo, A. S. Cammarano, and N. DiPaolo	Structure and Method for Corrosion and Stress-Resistant Interconnecting Metallurgy
5,442,297	R. L. Verkuil	Contactless Sheet Resistance Measurement Method and Apparatus
5,442,299	R. J. Caggiano	Printed Circuit Board Test Fixture and Method
5,442,315	R. A. Hutchins	Bit Stream Rate Asynchronous Digital Phase-Locked Loop
5,442,343	R. T. Cato and R. H. Harris	Ultrasonic Shelf Label Method and Apparatus
5,442,350	B. R. Iyer, C. Kurtz, K. E. Plambeck, and B. Sinha	Method and Means Providing Static Dictionary Structures for Compressing Character Data and Expanding Compressed Data
5,442,376	A. R. Tannenbaum and J. M. Zetts	Handling Multiple Command Recognition Inputs in a Multi-Tasking Graphical Environment
5,442,491	C. E. Bailey, S. R. Bentley, S. M. Paranjape, F. Quintana, and S. C. West	Synchronizing Data Tracks Using Global Force Windows and Track Sync Counters in a Multitrack Tape Device
5,442,492	E. A. Cunningham and J. M. Poss	Data Recovery Procedure Using DC Offset and Gain Control for Timing Loop Compensation for Partial-Response Data Detection
5,442,498	W. L. Cheung, C. J. Chiang, and T. H. Nguyen	Asynchronous Track Code Encodement and Detection for Disk Drive Servo Control System
5,442,618	A. G. Dewey, P. H. Francois, T. S. Gardner, H. Iwasaki, and M. Tayefeh	Common Mode Rejection Control in an Optical Disk Drive
5,442,629	J. E. Geyer, J. K. Lee, J. M. Mullen, V. R. Norman, K. M. Wilhelm, and K. T. Wilson	Token Ring Speed Detector
5,442,632	R. W. B. Burton, W. A. Hammond, Jr., and J. C. Willis	Stale Packet Removal Method and Apparatus
5,442,633	C. E. Perkins and J. Y. Rekhter	Shortcut Network Layer Routing for Mobile Hosts
5,442,638	J. C. Awad, J. W. Eldridge, D. G. Foote, and N. K. Ouchi	Apparatus and Method for Recording Over Defects in Storage Media
5,442,640	P. H. Bardell, Jr. and J. Savir	Test and Diagnosis of Associated Output Logic for Products Having Embedded Arrays

5,442,641	H. Beranger, F. Joly, and S. Rapoport	Fast Data Compression Circuit for Semiconductor Memory Chips Including an Array Built-In Self-Test Structure
5,442,658	P. Cuny, O. Maurel, and P. Klein	Synchronization Apparatus for a Synchronous Data Processing System
5,442,659	F. J. Bauchot, C.-C. Huang, I. Kessler, and K. S. Natarajan	Radio Communications System with Fault Tolerant Frequency Hopping Synchronization
5,442,691	S. Price and B. J. Worley	Method and Apparatus for Call Routing in Switched Digital Networks Using Call Control Tables
5,442,699	W. C. Arnold, D. M. Chess, J. O. Kephart, G. B. Sorkin, and S. R. White	Searching for Patterns in Encrypted Data
5,442,730	J. P. Bigus	Adaptive Job Scheduling Using Neural Network Priority Functions
5,442,735	C. Paradine	Method and Apparatus for Interactively Manipulating Models
5,442,736	B. Cummins	Correlation of Cursor Position to Shapes Displayed on a Video Display Screen
5,442,740	S. N. Parikh	Method and Apparatus for Visual Display of Program Performance Trace Data
5,442,752	D. A. Styczinski	Data Storage Method for DASD Arrays Using Striping Based on File Length
5,442,759	A. Chiang, K. M. McBride, and C. C. Yee	Interactive Online Tutorial System with User Assistance Function for Software Products
5,442,763	R. F. Bartfai, B. P. Lubart, and J. Thomas	System and Method for Preventing Deadlock in Multiprocessor Multiple Resource Instructions
5,442,766	T. V. Chu, C. R. Moore, J. S. Muhich, and T. M. Potter	Method and System for Distributed Instruction Address Translation in a Multiscalar Data Processing System
5,442,767	R. J. Eickemeyer and S. Vassiliadis	Address Prediction to Avoid Address Generation Interlocks in Computer Systems
5,442,772	P. L. Childs, N. S. Radia, and J. F. Skovira	Common Breakpoint in Virtual Time Logic Simulation for Parallel Processors
5,442,776	R. P. Masleid and N. G. Thoma	Electronically Tuneable Computer Clocking System and Method of Electronically Tuning Distribution Lines of a Computer Clocking System
5,442,779	R. J. Barber and A. J. Fogarasi	System and Method for Enabling an Interpreted Programming Language to Be Executed in a Database Management System Environment
5,442,789	R. G. Baker, J. A. Eduarte, D. Q. Huynh, P. R. Swingle, and S. Yong	System and Method for Efficiently Loading and Removing Selected Functions on Digital Signal Processors Without Interrupting Execution of Other Functions on the Digital Signal Processors
5,442,802	G. A. Brent, T. J. Dewkett, D. B. Lindquist, and C. A. Scalzi	Asynchronous Co-Processor Data Mover Method and Means
5,442,850	R. T. Kerth	Magnetic Head Slider Process
5,443,320	H. Agata, T. Imai, N. Kamijo, and T. Takahashi	Information Processing System with Printing Function
5,443,390	G. D. Kokkosoulis, J. E. Muyschondt, and B. J. Wilkie	Computer Audio Joystick and Midi Breakout Box
5,443,686	F. Jones, K. J. Muroski, Jr., and B. Robinson	Plasma CVD Apparatus and Processes
5,443,865	S. L. Tisdale and A. Viehbeck	Method for Conditioning a Substrate for Subsequent Electroless Metal Deposition
5,444,015	J. M. Aitken, K. D. Beyer, B. L. Crowder, and S. E. Greco	Large Scale IC Personalization Method Employing Air Dielectric Structure for Extended Conductors
5,444,287	R. J. Bezama, D. J. Schepis, and K. Seshan	Thermally Activated Noise Immune Fuse
5,444,299	Y. Tsukada, Y. Kobayakawa, Y. Maeda, and S. Tsuchita	Electronic Package with Lead Wire Connections
5,444,391	R. Moitie, J.-M. Rolland, and J. Renard	Tie-Up and Tie-Down Circuits with a Primary Input for Testability Improvement of Logic Networks
5,444,488	E. Goubault, E. Lancon, J. Menez, and C. Raimondo	Method and Apparatus for Coding Digital Data Using Vector Quantizing Techniques
5,444,589	H. L. Hu and H. Tsang	Rotary Actuator Disk Drive with Identical Dual-Element Read/Write Transducers
5,444,617	B. Merialdo	Method and Apparatus for Adaptively Generating Field of Application Dependent Language Models for Use in Intelligent Systems
5,444,690	E. R. Childers III, M. Henry, and M. Nemoto	Leaf Spring Lock for a Carriage in a Media Player that is Actuated by the Carriage and Position of a Cartridge
5,444,692	C. Basso, J. Calvignac, and F. Verplanken	Token Star Bridge
5,444,701	R. E. Cypher and L. Gravano	Method of Packet Routing in Torus Networks with Two Buffers Per Edge
5,444,705	H. T. Olnowich, T. N. Barker, P. M. Kogge, and G. C. Vandling III	Dual Priority Switching Apparatus for Simplex Networks

5,444,715	M. Gruetzner and C. W. Starke	AC Interconnect Test of Integrated Circuit Chips
5,444,719	C. E. Cox, G. P. Fettweis, M. A. Hassner, and U. Schwiigelshohn	Adjustable Error-Correction Composite Reed-Solomon Encoder/Syndrome Generator
5,444,768	C. A. Lemaire, T. Schick, and B. L. Striemer	Portable Computer Device for Audible Processing of Remotely Stored Messages
5,444,780	R. C. Hartman, Jr.	Client/Server Based Secure Timekeeping System
5,444,818	R. J. Lisle	System and Method for Dynamically Configuring Synthesizers
5,444,824	S. M. Austvold, J. P. Bigus, J. D. Henckel, and P. A. Hospers	Enhanced Neural Network Shell for Application Programs
5,444,825	C. L. Bain, F. Chu, P. D. Dinicola, and J. J. Lawless	Method and Apparatus for Scaling Line Patterns
5,444,841	H. J. Glaser, J. M. Strain, and A. T. Tuckey-Smith	Graphical User Interface Control for Replicating Data Fields in Forms
5,444,854	J. R. Mathis, R. R. Oehler, and C. Zeitler, Jr.	Input/Output Initiate Command Mechanism
5,444,855	S. P. Thompson	System for Guaranteed CPU Bus Access by I/O Devices Monitoring Separately Predetermined Distinct Maximum Non CPU Bus Activity and Inhibiting I/O Devices Thereof
5,444,925	S. L. Bard, J. D. Jones, R. H. Katyl, R. J. Moore, and O. A. Moreno	Fluid Treatment Apparatus and Method
5,445,166	R. H. Taylor	System for Advising a Surgeon
5,445,313	A. Boyd, W. French, S. P. Lees, K. S. Murray, and B. L. Robertson	Solder Particle Deposition
5,445,705	S. G. Barbee, M. Datta, T. F. Heinz, L. Li, E. H. Ratzlaff, and R. V. Shenoy	Method and Apparatus for Contactless Real-Time <i>In-Situ</i> Monitoring of a Chemical Etching Process
5,446,074	G. Czornyj, M. Ree, W. Volksen, and D. C. Yang	Photosensitive Polyimide Precursors
5,446,243	G. Crowder and R. A. Rippens	Post Processing Shielding
5,446,246	K. S. Desai and D. W. DiAngelo	MLC Conductor Pattern Off-Set Design to Eliminate Line to Via Cracking
5,446,261	B. Hernandez, R. R. Horton, M. J. Palmer, I. C. Noyan, and F. G. Weindelmayer	Solder Application System Using Helix to Control Solder Meniscus
5,446,299	A. Acovic and B. S. Wu	Semiconductor Random Access Memory Cell on Silicon-on-Insulator with Dual Control Gates
5,446,311	J. E. Ewen, S. Ponnappalli, and M. Soyuer	High-Q Inductors in Silicon Technology Without Expensive Metalization
5,446,312	C.-M. Hsieh, L. L. G. Hsu, S.-N. Mei, R. W. Knepper, and L. F. Wagner, Jr.	Vertical-Gate CMOS Compatible Lateral Bipolar Transistor
5,446,314	P. J. Melnick, A. J. Mennella, Jr., and H. P. Meyer	Low Profile Metal-Ceramic-Metal Packaging
5,446,540	B. J. Lin	Method of Inspecting Phase Shift Masks Employing Phase-Error Enhancing
5,446,601	M. Fukuta	Read/Write Circuit for Minimizing Recovery Time
5,446,618	O. Tetsuya, Y. Uchiyama, and H. Nomura	Personal Computer Security Apparatus with Lockable Slides Engaging Removable Cover
5,446,649	B. J. Keum	Data-Hiding and Skew Scan for Unioning of Shapes in Electron Beam Lithography Post-Processing
5,446,695	D. E. Douse, W. F. Ellis, and E. L. Hedberg	Memory Device with Programmable Self-Refreshing and Testing Methods Therefore
5,446,710	T. S. Gardner, R. P. Stahl, and S. T. Shafaat	Focus Error Detection Using an Equal Path Length Lateral Shearing Interferometer
5,446,723	M. E. Best, H. J. Rosen, K. A. Rubin, and T. C. Strand	Multiple Data Surface Optical Data Storage System
5,446,737	I. Cidon, L. Georgiadis, R. A. Guerin, Y. Y. Shavitt, and A. E. Slater	Method and Apparatus for Dynamically Allocating Shared Resource Access Quota
5,446,789	R. D. Loy and O. A. Mantilla	Electronic Device Having Antenna for Receiving Soundwaves
5,446,838	D. N. Kimelman	Floating Highlights on a Computer Program Code Display
5,446,845	R. X. Arroyo, W. E. Burky, T. A. Gruwell, and J. Hinojosa	Steering Logic to Directly Connect Devices Having Different Data Word Widths
5,446,850	T. L. Jeremiah and B. Blaner	Cross-Cache-Line Compounding Algorithm for Scism Processors
5,446,858	G. P. Copeland, R. D. Hoffman, T. R. Malkemus, and M. G. Smith	An Apparatus and Method for Transferring Information in Blocks from a Database to a Memory
5,446,869	R. S. Padgett, A. Nassiff, and S. G. Rauenzahn II	Configuration and RAM/ROM Control of PCI Extension Card Residing on MCA Adapter Card
5,446,871	R. W. Shomler and J. E. McIlvain	Method and Arrangement for Multi-System Remote Data Duplexing and Recovery

5,446,872	K. J. Ayres, B. C. Beardsley, K. A. Bello, M. T. Benhase, D. M. Nordahl, A. G. Torre, B. T. Trieu, and L. D. VanPatten	Method for Error Recovery in a Non-Synchronous Control Unit
5,446,876	F. E. Levine, B. C. Twichell, and E. H. Welbon	Hardware Mechanism for Instruction/Data Address Tracing
5,446,884	W. Schwendemmann and P. C. Wang	Database Recovery Apparatus and Method
5,446,885	A. R. Moore, L. J. Poulos, and L. G. DeFazio	Event Driven Management Information System with Rule-Based Applications Structure Stored in a Relational Database
5,446,891	C. A. Kaplan, J. R. Chen, D. C. Fallside, J. R. Fenwick, M. D. Forcier, and G. J. Wolff	System for Adjusting Hypertext Links with Weighed User Goals and Activities
5,446,897	T. R. Mathias, R. J. Planutis, and J. A. Wierbowski	Automated Address Discovery Method and Apparatus for Local Area Networks
5,446,898	R. Bealkowski and M. M. Bolt	Method and Apparatus for Configuring and Installing a Loadable BIOS Device Support Layer in a Computer System
5,446,903	R. L. Abraham, H. Mitchell, B. N. Panuganti, and L. A. Stowers	Method and Apparatus for Controlling Access to Data Elements in a Data Processing System Based on Status of an Industrial Process by Mapping User's Security Categories and Industrial Process Steps
5,446,913	N. C. Chou, E. J. D'Avignon, J. C. Gregerson, J. R. Robinson, M. S. Siegel, M. A. Smoolca, and A. J. Van Norstrand, Jr.	Method and System for Nonsequential Execution of Intermixed Scalar and Vector Instructions in a Data Processing System Utilizing a Finish Instruction Array
5,446,960	P. D. Issacs, T. D. Kidd, B. H. Redfield, and J. L. Stone	Alignment Apparatus and Method for Placing Modules on a Circuit Board
5,446,961	J. M. Levite, M. Berger, R. L. Chartrand, M. A. Emmett, R. A. Jackson, J. J. Petrone, R. F. Shortt, and R. A. Stinemire	Method for Repairing Semiconductor Substrates
5,447,072	J. A. Holung	Torsional Tester for Circuit Cards
5,447,695	C. A. Brown and H. R. Wendt	Chemical Breather Filter Assembly
5,447,906	P. Chaudhari, R. J. Gambino, R. H. Koch, J. A. Lacey, R. B. Laibowitz, and J. M. Viggiano	Thin Film High T _c Oxide Superconductors and Vapor Deposition Methods for Making the Same
5,448,016	N. DiPaolo, B. Ghosal, and K. H. Ruffing	Selectively Coated Member Having a Shank with a Portion Masked
5,448,090	S. F. Geissler, D. K. Lloyd, and M. Paggi	Structure for Reducing Parasitic Leakage in a Memory Array with Merged Isolation and Node Trench Construction
5,448,410	C. J. Freedenberg, F. A. Herring, and U. A. Ziemins	Variable Magnification Laser Imaging System
5,448,430	J. A. Bailey, J. F. Crossland, J. E. Malmberg, Y. B. Patel, and M. P. Von Senden	Track Following Servo Demodulation
5,448,436	T. R. Albrecht	Disk Drive with Shock-Resistant Rotary Actuator
5,448,474	A. Zamora	Method for Isolation of Chinese Words from Connected Chinese Text
5,448,521	S. E. Curry, M. E. Dean, M. R. Faucher, J. C. Peterson, and H. C. Tanner	Connecting a Short Word Length Non-Volatile Memory to a Long Word Length Address/Data Multiplexed Bus
5,448,565	P. Chang, J. W. Coates, E. H. C. Ku, and S. Sanaye	Multiport LAN Bridge
5,448,566	R. K. Richter and D. R. Stark, Jr.	Method and Apparatus for Facilitating Communication in a Multilayer Communication Architecture via a Dynamic Communication Channel
5,448,569	C.-C. Huang, D. F. Bantz, F. Bauchot, K. S. Natarajan, A. Narasimhan, and M. M. Wetterwald	Handoff Monitoring in Cellular Communication Networks Using Slow Frequency Hopping
5,448,571	J.-H. J. Hong and R. W. Wood	Method and Apparatus for Determining Byte Synchronization Within a Serial Data Receiver
5,448,572	L. A. Knox and D. A. Rickard	Spare Signal Line Switching Method and Apparatus
5,448,635	R. E. Biehl, C. C. Hallock, J. F. Jones, Jr., R. E. Landa, B. D. Mandalia, and C. H. Sederholm	Wiring Scheme and Network Adapter with Digital and Analog Outputs to Allow Old POTS Coexistence with ISDN
5,448,650	K. Desai, M. E. Scaman, and J. P. Wood	Thin-Film Latent Open Optical Detection with Template-Based Feature Extraction
5,448,679	F. A. McKiel, Jr.	Method and System for Speech Data Compression and Regeneration
5,448,686	P. Borrel and J. R. Rossignac	Multi-Resolution Graphic Representation Employing at Least One Simplified Model for Interactive Visualization Applications
5,448,693	J. A. Blades, H. G. Kiel, and R. F. Romon	Method and System for Visually Displaying Information on User Interaction with an Object Within a Data Processing System
5,448,695	T. B. Douglas and R. J. Torres	Method and Apparatus for Dynamic Visual Feedback Messaging in a Graphical User Interface of a Data Processing System
5,448,701	W. C. Metz, Jr. and A. J. Rindos III	Flow Controller for Shared Bus Used by Plural Resources

5,448,702	S. J. E. Garcia, Jr., M. S. Gatson, G. B. Hoch, E. H. Stelzer, and D. G. Williams	Adapters with Descriptor Queue Management Capability
5,448,703	N. Amini and A. Kohli	Method and Apparatus for Providing Back-to-Back Data Transfers in an Information Handling System Having a Multiplexed Bus
5,448,716	W. R. Hardell, Jr., J. D. Henson, Jr., and O. R. Mitchell	Apparatus and Method for Booting a Multiple Processor System Having a Global/Local Memory Architecture
5,448,718	O. Cohn, W. F. Micka, K. M. Nagin, Y. Novick, and A. Winokur	Method and System for Time Zero Backup Session Security
5,448,722	K. J. Lynne, N. Samura, and T. M. Walker	Method and System for Data Processing System Error Diagnosis Utilizing Hierarchical Blackboard Diagnostic Sessions
5,448,725	G. Gervais	Apparatus and Method for Error Detection and Fault Isolation
5,448,726	W. J. Cramsie, A. B. Goldschmidt, V. E. Pinchbeck, and D. R. Ziegler	Data Base Management System with Data Dictionary Cache Including a Single Loadable Object Descriptor
5,448,730	T. R. Bakita, S. M. Crimmins, T. L. Howe, and F. J. Reznak	Correlating a Response with a Previously Sent Request in a Multitasking Computer System Using Pipeline Commands
5,448,731	D. S. Wang and M. L. Williams	Method and Apparatus for Controlling the Deferred Execution of User Requests in a Data Processing System
5,448,732	T. Matsumoto	Multiprocessor System and Process Synchronization Method Therefor
5,448,733	A. Satoh and H. Nijima	Data Search and Compression Device and Method for Searching and Compressing Repeating Data
5,448,734	R. J. Hrabik, C. J. Lennon, T. N. Scaggs, and P. A. Smith	Selective Distribution of Messages Using Named Pipes
5,448,737	M. G. Burke, J.-D. Choi, and R. G. Cytron	System and Method for Optimizing Computer Code Using a Compact Data Flow Representation
5,448,740	T. Kiri and R. Thelen	Generation of a User Interface Code from a Corresponding Declarative Language Program
5,448,746	R. J. Eickemeyer and S. Vassiliadis	System for Compounding Instructions in a Byte Stream Prior to Fetching and Identifying the Instructions for Execution
5,449,405	T. J. Cardinali and B. J. Lin	Material-Saving Resist Spinner and Process
5,449,590	W. I. Imaino, H. J. Rosen, K. A. Rubin, T. C. Strand, and W. W.-C. Tang	Multiple Data Surface Optical Data Storage System
5,449,631	K. J. Giewont and A. J. Yu	Prevention of Agglomeration and Inversion in a Semiconductor Salicide Process
5,449,907	J. C. McKeeman and P. S. Kapcio	Programmable On-Focal Plane Signal Processor
5,449,984	D. Sawdon, J. S. Beeteson, and P. Beanlands	Cathode Ray Tube Display Apparatus
5,450,073	P. J. Brown, J. C. Elliott, B. Laubli, K. R. Lynch, and W. F. Micka	Controlling Power Sequencing of a Control Unit in an Input/Output System
5,450,079	L. W. Dunaway	Multimodal Remote Control Device Having Electrically Alterable Keypad Designations
5,450,137	T. W. Rickard, P. M. Smith, D. C. Conway-Jones, and D. J. Brown	Signal Processing Apparatus
5,450,158	R. F. Jessen, C. A. Mertens, N. J. Olsen, and R. J. Telfer	Optical Sensor for a Jam-Free Continuous-Forms Printer
5,450,216	J. M. Kasson	Color Image Gamut-Mapping System with Chroma Enhancement at Human-Insensitive Spatial Frequencies
5,450,271	A. Fukushima, I. Miwa, and N. Kawashima	Portable Computer Docking Apparatus Including a Key Mechanism Controlling a Power Supply and a Locking Mechanism
5,450,290	C. M. Boyko, F. J. Bucek, R. W. Carpenter, V. R. Markovich, D. Mayo, C. M. Reidsema, and J. G. Sabia	Printed Circuit Board with Aligned Connections and Method of Making Same
5,450,351	M. C. A. Heddes	Content Addressable Memory Implementation with Random Access Memory
5,450,367	N. D. Butler and R. M. P. West	Split SAM with Independent SAM Access
5,450,383	D. E. Call, B. I. Finkelstein, and G. A. Jaquette	Monitoring and Adjusting Laser Write Power in an Optical Disk Recorder Using Pulse-Width Modulated Power Level Checking Signals
5,450,384	K. G. Dahman, K. F. Day III, A. M. Diaz, W. D. LaMear, Jr., and E. R. Morse	Fast Formatting of Media in an Optical Library
5,450,385	J. F. Ellis, F. D. Gallo, G. F. Gooding, and S. M. Rockwell	Determination of Status of Storage Cells in an Automated Storage and Retrieval System
5,450,416	R. A. Bowcutt, S. M. Igel, W. P. Krapohl, and P. S. Lunia	Apparatus and Method for Testing Multifunction Communications Networks
5,450,422	T. J. Dell	Method and Structure for Providing Error Correction Code for Each Byte on SIMM's
5,450,443	P. H. Siegel and A. Vardy	Method and Apparatus for Constructing Asymptotically Optimal Second Order DC-Free Channel Codes

5,450,458	W. E. Price and K. A. Uplinger	Method and Apparatus for Phase-Aligned Multiple Frequency Synthesizer with Synchronization Window Decoder
5,450,508	C. M. Decusatis and L. Jacobowitz	Apparatus and Method for Optical Fiber Alignment Using Adaptive Feedback Control Loop
5,450,529	J. P. Bigus	Neural Network Shell for Application Programs
5,450,538	H. J. Glaser and M. J. Darnell	Graphical User Interface Control for Expansion and Re-Sizing of Data Fields in Forms
5,450,545	R. V. Martin and M. G. Moulton	Generation of Rules-Based Computer Programs Using Data Entry Screens
5,450,549	M. A. Casparian	Multi-Channel Image Array Buffer and Switching Network
5,450,551	N. Amini, P. M. Bland, B. F. Boury, R. G. Hofmann, and T. J. Lohman	System Direct Memory Access (DMA) Support Logic for PCI Based Computer System
5,450,559	R. M. Begunt, P. M. Bland, and M. E. Dean	Microcomputer System Employing Address Offset Mechanism to Increase the Supported Cache Memory Capacity
5,450,563	S. L. Gregor	Storage Protection Keys in Two Level Cache System
5,450,572	J. J. Ruedinger, P. Rudolph, and H. S. Schölling	Quasi-Synchronous Information Transfer and Phase Alignment Means for Enabling Same
5,450,579	R. H. Johnson	Method and Apparatus for Error Recovery in Computer Peripheral Devices
5,450,581	D. E. Bergen, D. A. Fogle, H. H. Hall, Jr., and H. T. Spickhoff	System for Copying from One Database Management System to Another by Translating Authorization Statements
5,450,585	M. A. Johnson	Compiler with Delayed Conditional Branching
5,450,587	I. Salm	Expanded Memory Addressing Scheme
5,450,588	S. M. Hoxey	Reducing Pipeline Delays in Compilers by Code Hoisting
5,450,590	D. A. Elko, J. A. Frey, A. A. Helffrich, J. M. Nick, and M. D. Swanson	Authorization Method for Conditional Command Execution
5,450,591	M. J. Palmer	Channel Selection Arbitration
5,450,593	W. E. Howell and H. N. Reddy	Method and System for Controlling Access to Objects in a Data Processing System Based on Temporal Constraints
5,450,595	M.-S. Chen and P. S. Yu	Multiple Hash Tables Based on Access Frequency
5,450,599	T. A. Horvath, N. H. Kreitzer, A. G.-C. Lean, and T. McCarthy	Sequential Pipelined Processing for the Compression and Decompression of Image Data
5,450,602	P. K. Szwed	Two Stage Register for Capturing Asynchronous Events and Subsequently Providing Them to a Processor Without Loss or Duplication of the Captured Events
5,450,747	K. A. Flechsig, C.-K. Lee, S. L. Lee, U. V. Nayak, and T. C. O'Sullivan	Method for Optimizing Piezoelectric Surface Asperity Detection Sensor
5,451,131	L. C. Hecht, M. P. Sulger, E. E. Thiele, M. V. Pierson, and L. E. Williams	Dockable Interface Airlock Between Process Enclosure and Interprocess Transfer Container
5,451,289	S. G. Barbee, T. F. Heinz, L. Li, and E. H. Ratzlaff	Fixture for <i>In-Situ</i> Noncontact Monitoring of Wet Chemical Etching with Passive Wafer Restraint
5,451,535	K. K. Chan, S. H. Dhong, D. P. E. Kern, and Y. H. Lee	Method for Manufacturing a Memory Cell
5,451,655	H. G. Linde, R. A. Previti-Kelly, and T. J. Reen	Process for Making Thermostable Coating Materials
5,451,721	Y. Tsukada and S. Tsuchida	Multilayer Printed Circuit Board and Method for Fabricating Same
5,451,800	S. N. Mohammad	Metal Oxide Semiconductor Heterojunction Field Effect Transistor MOSHFET
5,451,863	M. R. Freeman	Fiber Optic Probe with a Magneto-Optic Film on an End Surface for Detecting a Current in an Integrated Circuit
5,452,048	A. D. Edgar	Middle Curtain Flash
5,452,081	F. Wotzka and R. C. Bartell	Texture Matching Device
5,452,090	C. J. Proglor and A. E. Rosenbluth	CCD Based Confocal Filtering for Improved Accuracy in X-ray Proximity Alignment
5,452,164	R. W. Cole, J. J. Lo, and J. L. Su	Thin Film Magnetic Write Head
5,452,241	B. Desrosiers, L. Didier, D. Pinchon, and A. Steimle	System for Optimizing Argument Reduction
5,452,250	S. R. Riggio, Jr.	Non-Volatile Register System Utilizing Thin-Film Floating-Gate Amorphous Transistors
5,452,277	C. H. Bajorek, T. W. Glaser, K. B. Klaassen, C. R. Nielsen, G. R. Santana, G. J. Smith, and D. A. Thompson	Adaptive System for Optimizing Disk Drive Power Consumption
5,452,388	J. W. Rittle, W. W. Vetter, and J. R. Webb	Fiber Optic Connector Housing, Fiber Optic Receptacle, Accessories Employing Fiber Optic Connector Housings and Corresponding Optical Assemblies
5,452,411	K. Hidaka	System and Method for Generating Graphics Objects Constrained by Previously Generated Graphics Objects

5,452,412	L. E. Johnson, Jr., D. J. Kokoszka, S. P. Larky, and P. Sidoli	High Performance Rasterization Engine
5,452,413	J. A. Blades	Method and System for Manipulating Wide-Angle Images
5,452,421	B. C. Beardsley, M. S. Porter, and A. G. Yanes	System for Using Register Sets and State Machines Sets to Communicate Between Storage Controller and Devices by Using Failure Condition Activity Defined in a Request
5,452,430	R. Dievendorff and C. Mohan	System and Method for Storing Persistent and Non-Persistent Queued Data and for Recovering the Persistent Data Responsive to a System Restart
5,452,442	J. O. Kephart	Methods and Apparatus for Evaluating and Extracting Signatures of Computer Viruses and Other Undesirable Software Entities
5,452,455	M. P. Brown, R. Cwiakala, K. J. Fredericks, M. J. Halma, D. W. Hollar, R. E. Hough, S. M. John, A. Marron, J. C. Mazurowski, K. J. Oakes, C. E. Shapley, and L. W. Syman	Asynchronous Command Support for Channels for a Computer Complex Having Multiple Operating Systems
5,452,457	A. I. Alpert, P. G. Greenstein, J. T. Rodell, and R. Raghavan	Program Construct and Methods/Systems for Optimizing Assembled Code for Execution
5,452,460	R. J. Distelberg, J. H. Case, and R. A. Fabish	Method and Apparatus for Creating Secure Pseudo-Terminal Links
5,452,470	R. F. Kantner, Jr., T.-W. Keung, J. W. Krull, and S. Salamian	Use of Video RAM in High Speed Data Communications